IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Katsumi MIYATA et al.

Serial Number: 09/478,508

Filed: January 6, 2000

OCT O 6 2000 JULY

Group Art Unit: 2814

8/A 00 10-11-00

Examiner: GRAYBILL, D.

For: SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

AMENDMENT

Director of Patents and Trademarks Washington, D.C. 20231

October 6, 2000

Dear Sir:

This is in response to the Office Action dated July 14, 2000, having a shortened three-month period for response ending on October 14, 2000. The following amendments and remarks are respectfully submitted.

IN THE CLAIMS:

Please CANCEL claims 1-12, 14 and 15 without prejudice or disclaimer.

Please AMEND claim 13 as follows:

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13. (Amended) A servicenductor device having a semiconductor chip,

first electrodes formed said semiconductor chip,

barrier metals formed on said first electrodes and having laminated structures, and

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a plurality of second protituded electrodes, which [serves] serve as external connection terminals, formed on said barrier metals, wherein said barrier [metal] metals comprising:

a lowermost conductive metal layer laminated on said first electrodes [and made of one or more], said lowermost conductive metal [coating] layer having a comparatively good joining property with said first electrodes;

an intermediate conductive metal layer laminated on said lowermost conductive metal layer [and made of one or more], said intermediate conductive metal layer comprising one or more layers and having a comparatively good joining property with said lowermost conductive metal layer, [at least one of] said intermediate conductive metal [layers] layer having at least one layer serving as a barrier layer for preventing said protruded electrodes from [diffused] diffusing into said intermediate conductive metal [layers] layer; and

an uppermost conductive metal layer laminated on said <u>one or more</u> intermediate conductive metal layers [and made of one or more], <u>said</u> uppermost conductive metal [layers] <u>layer being</u> made of a material which easily alloys with the material of said [plurality of the uppermost] <u>intermediate</u> conductive metal layers.

REMARKS

Claim 13 is pending in this application. Claims 1-12, 14 and 15 have been cancelled. Reconsideration of the rejections in view of these amendments and the following remarks is respectfully requested.

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Rejections under 35 USC §112, Second Paragraph

Claim 13 was rejected under 35 USC 112, second paragraph, as being indefinite because

claim 13 lacks sufficient literal antecedent basis.

Claim 13 has been amended to give sufficient antecedent basis and clarify the claimed

subject matter. Thus, the 35 USC 112, second paragraph rejection has been overcome.

It is submitted that thus all pending claims are in condition for allowance. Reconsideration

of the rejection, withdrawal of the rejection and an early issue of a Notice of Allowance are

earnestly solicited.

If, for any reason, it is felt that this application is not now in condition for allowance, the

Examiner is requested to contact Applicant's undersigned attorney at the telephone number

indicated below to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed, Applicant respectfully petitions for an

appropriate extension of time. The fees for such an extension or any other fees which may be due

with respect to this paper, may be charged to Deposit Account No. 01-2340.

Respectfully submitted,

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